

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P1057185

Luminaire Tested: PRLX-CYL2S-X-930-15L-FL-U-S-X-X-BLAK

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057185
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-407-2)
Test Lab: INNOVATION CENTER
Issue Date: 8/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL2S-X-930-15L-FL-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 1500 LUMENS, FLOOD OPTIC (38-DEGREES)
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

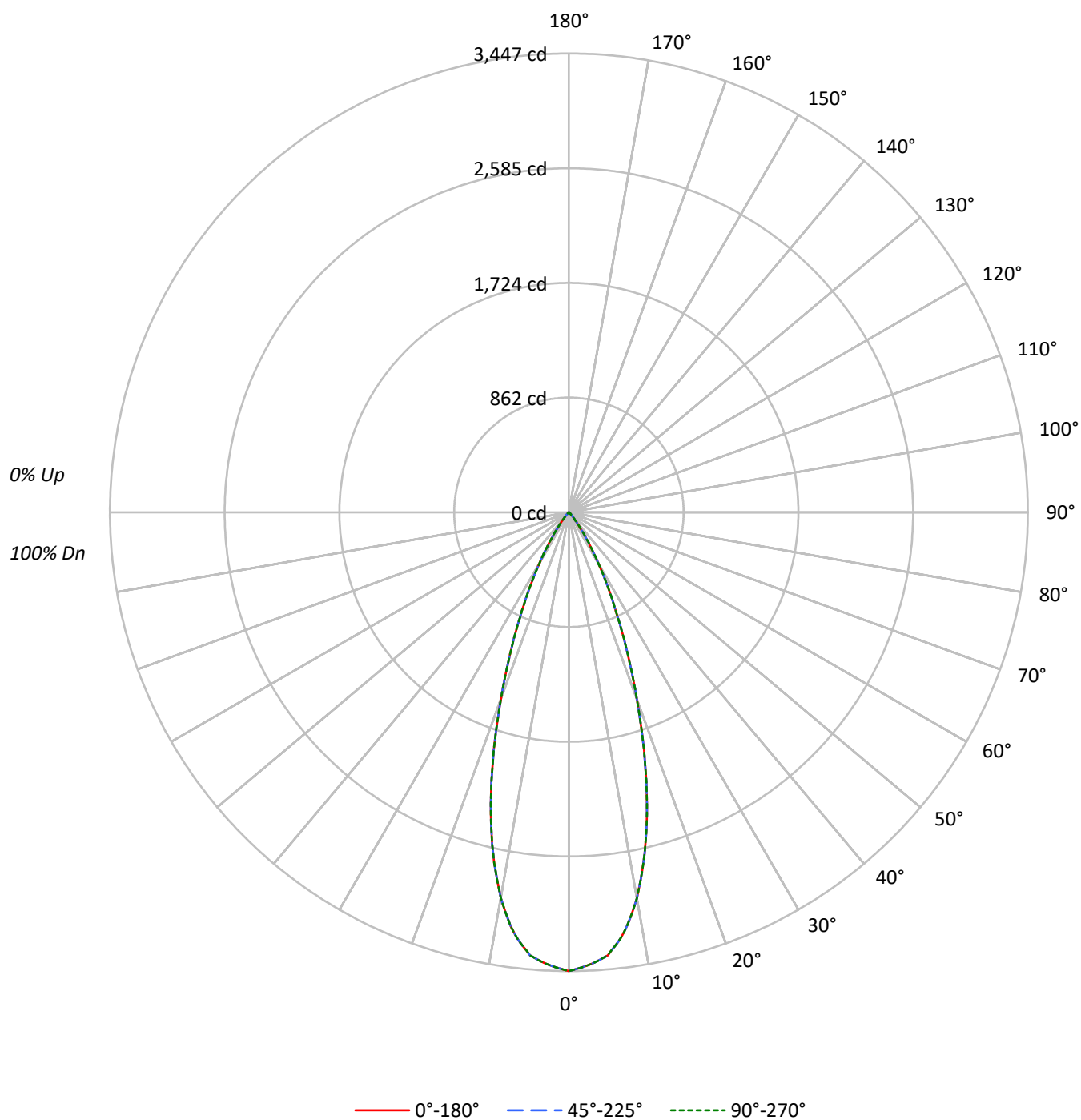
Lumens per Lamp: N/A
Luminaire Lumens: 1477.2 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.6
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1057185

CATALOG NUMBER: PRLX-CYL2S-X-930-15L-FL-U-S-X-X-BLAK

Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95		
2	110	106	102	100	108	104	101	98	101	98	96	98	96	94	95	94	92	91		
3	106	100	96	93	104	99	95	92	96	93	91	94	91	89	92	90	88	87		
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	88	86	84	82		
5	98	91	86	82	96	90	85	82	88	84	81	87	83	81	85	82	80	79		
6	94	87	82	78	93	86	81	78	85	80	77	83	80	77	82	79	76	75		
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72		
8	87	79	75	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69		
9	84	76	71	68	83	76	71	68	75	71	68	74	70	68	73	70	67	66		
10	81	73	69	65	80	73	68	65	72	68	65	71	68	65	71	67	65	64		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2221186	2221186	2221186
5°	2161748	2161748	2161748
10°	1926111	1926111	1926111
15°	1511300	1511300	1511300
20°	1019339	1019339	1019339
25°	613982	613982	613982
30°	332097	332097	332097
35°	140031	140031	140031
40°	46604	46604	46604
45°	19958	19958	19958
50°	11730	11730	11730
55°	8202	8202	8202
60°	5671	5671	5671
65°	4422	4422	4422
70°	2826	2826	2826
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19958 cd/sqm

TEST NUMBER: P1057185

CATALOG NUMBER: PRLX-CYL2S-X-930-15L-FL-U-S-X-X-BLAK

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.8	20.7
10°-20°	614.3	41.6
20°-30°	403.4	27.3
30°-40°	124.2	8.4
40°-50°	19.7	1.3
50°-60°	6.7	0.5
60°-70°	2.5	0.2
70°-80°	0.6	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1323.6	89.6
0°-40°	1447.8	98.0
0°-60°	1474.1	99.8
0°-90°	1477.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1477.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3447	3447	3447	3447	3447	
5°	3342	3342	3342	3342	3342	306
15°	2265	2265	2265	2265	2265	614
25°	864	864	864	864	864	403
35°	178	178	178	178	178	124
45°	22	22	22	22	22	20
55°	7	7	7	7	7	7
65°	3	3	3	3	3	3
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1057185

CATALOG NUMBER: PRLX-CYL2S-X-930-15L-FL-U-S-X-X-BLAK

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3446.8	3446.8	3446.8	3446.8	3446.8
1°	3431.0	3431.0	3431.0	3431.0	3431.0
2°	3415.3	3415.3	3415.3	3415.3	3415.3
3°	3394.3	3394.3	3394.3	3394.3	3394.3
4°	3368.0	3368.0	3368.0	3368.0	3368.0
5°	3341.8	3341.8	3341.8	3341.8	3341.8
6°	3280.5	3280.5	3280.5	3280.5	3280.5
7°	3219.2	3219.2	3219.2	3219.2	3219.2
8°	3139.6	3139.6	3139.6	3139.6	3139.6
9°	3041.6	3041.6	3041.6	3041.6	3041.6
10°	2943.5	2943.5	2943.5	2943.5	2943.5
11°	2818.7	2818.7	2818.7	2818.7	2818.7
12°	2693.8	2693.8	2693.8	2693.8	2693.8
13°	2558.2	2558.2	2558.2	2558.2	2558.2
14°	2411.7	2411.7	2411.7	2411.7	2411.7
15°	2265.3	2265.3	2265.3	2265.3	2265.3
16°	2109.5	2109.5	2109.5	2109.5	2109.5
17°	1953.7	1953.7	1953.7	1953.7	1953.7
18°	1797.9	1797.9	1797.9	1797.9	1797.9
19°	1642.1	1642.1	1642.1	1642.1	1642.1
20°	1486.4	1486.4	1486.4	1486.4	1486.4
21°	1350.4	1350.4	1350.4	1350.4	1350.4
22°	1214.5	1214.5	1214.5	1214.5	1214.5
23°	1089.9	1089.9	1089.9	1089.9	1089.9
24°	976.7	976.7	976.7	976.7	976.7
25°	863.5	863.5	863.5	863.5	863.5
26°	772.5	772.5	772.5	772.5	772.5
27°	681.5	681.5	681.5	681.5	681.5
28°	598.0	598.0	598.0	598.0	598.0
29°	522.2	522.2	522.2	522.2	522.2
30°	446.3	446.3	446.3	446.3	446.3
31°	384.5	384.5	384.5	384.5	384.5
32°	322.7	322.7	322.7	322.7	322.7
33°	269.0	269.0	269.0	269.0	269.0
34°	223.5	223.5	223.5	223.5	223.5
35°	178.0	178.0	178.0	178.0	178.0
36°	147.0	147.0	147.0	147.0	147.0
37°	116.1	116.1	116.1	116.1	116.1
38°	91.6	91.6	91.6	91.6	91.6
39°	73.5	73.5	73.5	73.5	73.5
40°	55.4	55.4	55.4	55.4	55.4
41°	46.1	46.1	46.1	46.1	46.1
42°	36.8	36.8	36.8	36.8	36.8
43°	30.0	30.0	30.0	30.0	30.0
44°	26.0	26.0	26.0	26.0	26.0

TEST NUMBER: P1057185

CATALOG NUMBER: PRLX-CYL2S-X-930-15L-FL-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	21.9	21.9	21.9	21.9	21.9
46°	19.5	19.5	19.5	19.5	19.5
47°	17.2	17.2	17.2	17.2	17.2
48°	15.2	15.2	15.2	15.2	15.2
49°	13.4	13.4	13.4	13.4	13.4
50°	11.7	11.7	11.7	11.7	11.7
51°	10.5	10.5	10.5	10.5	10.5
52°	9.3	9.3	9.3	9.3	9.3
53°	8.5	8.5	8.5	8.5	8.5
54°	7.9	7.9	7.9	7.9	7.9
55°	7.3	7.3	7.3	7.3	7.3
56°	6.7	6.7	6.7	6.7	6.7
57°	6.1	6.1	6.1	6.1	6.1
58°	5.5	5.5	5.5	5.5	5.5
59°	5.0	5.0	5.0	5.0	5.0
60°	4.4	4.4	4.4	4.4	4.4
61°	3.8	3.8	3.8	3.8	3.8
62°	3.2	3.2	3.2	3.2	3.2
63°	2.9	2.9	2.9	2.9	2.9
64°	2.9	2.9	2.9	2.9	2.9
65°	2.9	2.9	2.9	2.9	2.9
66°	2.3	2.3	2.3	2.3	2.3
67°	1.8	1.8	1.8	1.8	1.8
68°	1.5	1.5	1.5	1.5	1.5
69°	1.5	1.5	1.5	1.5	1.5
70°	1.5	1.5	1.5	1.5	1.5
71°	1.5	1.5	1.5	1.5	1.5
72°	1.5	1.5	1.5	1.5	1.5
73°	1.2	1.2	1.2	1.2	1.2
74°	0.6	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0
89°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1057185
CATALOG NUMBER: PRLX-CYL2S-X-930-15L-FL-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	6.75	7.65	7.12	7.96	8.28	6.75	7.65	7.12	7.96	8.28
	3H	6.97	7.76	7.36	8.10	8.47	6.97	7.76	7.36	8.10	8.47
	4H	6.91	7.64	7.32	8.00	8.39	6.91	7.64	7.32	8.00	8.39
	6H	6.79	7.46	7.21	7.84	8.23	6.79	7.46	7.21	7.84	8.23
	8H	6.73	7.36	7.17	7.75	8.16	6.73	7.36	7.17	7.75	8.16
	12H	6.67	7.26	7.10	7.65	8.08	6.67	7.26	7.10	7.65	8.08
4H	2H	6.83	7.56	7.24	7.91	8.31	6.83	7.56	7.24	7.91	8.31
	3H	7.21	7.81	7.63	8.22	8.62	7.21	7.81	7.63	8.22	8.62
	4H	7.12	7.65	7.56	8.08	8.53	7.12	7.65	7.56	8.08	8.53
	6H	7.00	7.45	7.48	7.91	8.38	7.00	7.45	7.48	7.91	8.38
	8H	6.93	7.35	7.40	7.80	8.27	6.93	7.35	7.40	7.80	8.27
	12H	6.86	7.22	7.35	7.71	8.18	6.86	7.22	7.35	7.71	8.18
8H	4H	6.97	7.39	7.45	7.85	8.32	6.97	7.39	7.45	7.85	8.32
	6H	6.84	7.17	7.36	7.68	8.16	6.84	7.17	7.36	7.68	8.16
	8H	6.77	7.06	7.30	7.58	8.08	6.77	7.06	7.30	7.58	8.08
	12H	6.71	6.96	7.23	7.46	8.04	6.71	6.96	7.23	7.46	8.04
12H	4H	6.90	7.26	7.40	7.75	8.23	6.90	7.26	7.40	7.75	8.23
	6H	6.77	7.06	7.30	7.58	8.08	6.77	7.06	7.30	7.58	8.08
	8H	6.71	6.96	7.23	7.46	8.04	6.71	6.96	7.23	7.46	8.04

END OF REPORT